« In Essay Inflammation Presented to the Faculty Homoropathic Medical College of Penna, for the Degree of Noctor of Medicine By I. L. Gennock Gennett Square Phila, Feb. 186/

Inflammation-6 mong the many subjects which engross the attention of the practitioner, There is none of so Vital importance to the physician, The surgeon, or patient as The one under consideration, for it is entimately connected with nearly all diseases, and very often coneles utes the chief source of danger. Gence The importance of a Thorough knowledge of its cause, origin, forogress, and terminations, The symptoms by which it may be recognized, and the remedies that may be used to control, or mostly its

action. Again it is of importance to know when and how to promote its action, for it is the ground work, The corner stone, the long note of the Surgeons success in making reparation after injuries, in restoring The broken limb, in armoving congenite deformety, and with artistic hand elling up the hideous void bringing back the long lost branky Ever to stand as a monument of the surgeons power. I Hence at one time it is the Source of the greatest blessing giving restoration to body & limb, at another the cause of the greatest evil in destroying not only tissues and structures, but life tell, The question arises,

What is inflammation? It is a morbid action; characterized by heat; pain, swelling, and redness, Or it may be defined a morbid excitement, which transcends the founds of initation, embracing all those changes which commence when initation ceases, and end with the loss of life, or the restoration of the part to health.

Inflammation may be defined

a diseased, or persented condition of the flood and blood vessels, attended with changes in the part, and frequently disturbance to the general system. This transition from health to disease is characterized by various themomena. In the first place, we have simple vascular excitement

or determination in which there is a contraction of the capillaries and stood vessels, Through which the circulation is increased, immediately Following This condition There is active congestion, with a dilation of the blood ressels, and increased amount of Flood to the part, The circulation becomes less rapid, the coals of the vessels loose their tenacity, and geve way under pressure. The Flood itself undergoes changes, The Libran, serum, leguor sanguinis are increased with a tendency to the exudation of plastic material. This is the stage of active Congestion, which The lurgeon desires, and expects to accomplish his nopes after his most emportant

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operations. In true inflammation we have a combination of vascular excetement, and active congestion. (or rather these are primary steps in The morbid chain) and closely following there is a tendency to stagnation, The capillaries are destroyed, or their power is lost for the time, the coats have become Thickened and changed, the corpuscles adhere together and occupy every part of the distended blood vessels. The capillaries give way with effuein of blood, and a breaking, down and disentegration of tissues follow, depending on the intensity of the inflammatory action. The local symptoms of heat pain, swelling, and redness do not always exist. The redness varies in proportion to the intensity of the cause, The nature of the inflammation, the vascularity of the effected tissues. It may possess all shades of color, from the slighest tint, or flush, to a deep red or purple, often very bright in one shot decreasing until the reduces is lost in the healthy color of surrounding tissues. This redness is owing to an influx of blood in the part, and encisases as The inflammatory process proceeds, and decreases as the part returns to health, with This reduces there is an increased amount of heat in The part, This heat is caused by an increased amounto blood in the capellaries, and The great vital action, and is increased

in proportion to the intensity of the exciting cause, Fair another accompaniment of inflammation is sometimes so slight as not to be perceived by The patient, other times it is exquisitely severe, sometimes dull, other times sharp, Furning, Lancinating, throbbing. This pain is owing to pressure on the nerves, or to some unexplained state or condition of the nervous system. Thus in neuralgia, we have severe pain when there is no indica tion of inflammatory process. again pain may be sympathetic manifesting itself at some point distant from the seat of disease. being conveyed to the spinal cord, thence transmetted by sensory nerves

That are distributed to parts distant from the seat of disease. The swelling like the pain defend under different circumstances, often slight when it effects mucus membrano or enormous when its location is the lymphatic glands, It may be prominent, flat, diffused or circumse ribed, depending on an influx of blood, or an effusion in the tissues. The swelling is always gradual in its developement, differing from turnors, dislocations, herma de. In The progress of inflammation there es always some modefication of the process of excretion. In the commencing or forming stage, when it has scarce passed the bounds of irrebation There is an increase in the normal

Secretion of the effected organ, but as the inflammation progresses excretion becomes increased much begond the natural amount; and The character of the secretion is change Another prominent symptom of inflammation is manifest in the dimenishing, or Entire suspension of The function of an organ. Thus in ophthalmia The eye fails to discrimenate color, or objects, & the least vay of light causes painful distress. The ear, when in health is charmed with the harmony of sound, in desease is deaf, or painful to the sweetest music, So it is in Coraga, The sense of smell is lost, in inflammation To the brain we have convultions, and

precureory symptoms of spridy dissolution. increased consciently is a prominent characteristic of inflammation, in certain diseases of the intestinal organi as in peritonity and gastritis, The sensibility is so great as to render The slightest pressure a source of pain Like effects are observed in external disease, as boil, enjerpelasco, the instanced surface becomes extremely sensitive to the touch. Hence This tenderness, or extreme sensibility becomes a distinguishing mark, a diagnostio symptom of great importance in determining the character of disease. Again closely connected with this, we have increased irritability, as in irritation of the stomach when inflammation of the intestines exist

The causes of Inflammation are as numerous and varied as the circumstances with which we are surrounded, whatever makes a morbid impression on the nervous, or physical system, or disturbs the uniformity of the circulation is capable of laying the ground works for disease, Thus the suppression of perspiration from the cutaneous surface is often productive of consequences fatab to life .-The causes of inflammation are divided by pathologists into predisposing and exciting. By predisposing is meant, that peculiarity of constitution or condition of body, which disposes to the action of disease, or is favorable to the

developement of inflammation, without provolcing it. Thus we see the predisposing causes manifest in The etrumous diathesis, where that peculiar taint of the system produces inflammation of the lymphatic glands, the production of tubercles in The lungs, or insiduously invades some other part of the system, with alike Jatab results. Pheumatism, gout, scrofula, pulmonary phthisis, constitutional Dyphilis, and as many other diseases are transmitted, of thus become so many prolific sources of inflammation. Exciting causes are those which immediately produce disease, or excite to action predisposing causes. They act in two ways - directly whose the part, or indirectly whom the system, and may be divided into

local and constitutional. Local causes are divided into chemical & mechanical; Chemical, such as high degrees of heat, the application of caustic substances, blisters and certain efecific agents, as those of Small pox, lyphilis de, all of these agents act directly whom the part, destroying & exciting inflammation. Mechanical causes embrace wounds, fractures, dislocations, injuries, the presence of foreign substances Constitutional causes effect the system by indirectly impressing Some remote structure, Thus the influence of a Tropical sun in producing inflammation of the intestinat organs, or impression of cold on the cutameous surface, producing Oneumoura.

Sometimes The blood itself is a source of inflammation, when it is overloaded with irretating substances as in pyrmia, or is deficient in healthy constituents, or unfitting it to support life and healthy nutrition. Again it is caused by sympathy and metastesisherhaps owing to some sympathy or peculiarity of the nervous system of which little is tenown. Suffammation of whatever character or grade commences at a engle point, of extends to surrounding structures, - sometimes confined to a small surface or spot, other times spreading with such rapidity as to endanger life or The destruction of the part, It is rastened by the

rascularity of the part, & extends by continuity and contiguity of structures, by nervous eyempathy, and by absorbtion through the blood vessely, a frequent example of the latter is seen following the wounds from a foul lancet, inflammation may be acute or chronic. healthy or unhealthy, common, specific, or latent,

by well marked signs, running a swift course, manifesting local of constitutional symptoms.

Chronic inflammation is marked by slowness and frebleness of action, and is often the sequel of acute Healthy when it proceeds to restoration and reparation (as in the healing of wounds,) Unhealthy when it

proceeds to suppuration, or gangreno, It is common when it follows common causes. Specific when it is the result of a specific cause, as in small poxorsyphilis. Labent when it is concealed from observation, and not marked by the usual phrnomena, inflammation has two modes of termination .one in health, the other in disease, The former occurs by resolution, the latter by gangrene, and mortification. By resolution when the cause is removed, The inflamed part returns gradually without suppuration to The healthy condition. By gangrene when the morbed action continues till ortality is lost. The absorbtion of fluids, The exudation

of coagulable lymph, The formation of puss, suppuration, granulations, cicatrization, relevation, softening of induration are all so many links in the morbid chain, so many states, or conditions of the inflummatory process, which belongs to one of the above mentioned terminations. in inflammation the morbid action may be so slight as not to be rec--ognized by the eystem, but if the action is severe, or invades an important organ, The whole system becomes sympathetically effected, the phenomena now exhibited is symptomatic of the suffering of the organ. The length of time that expires until constitutional manifestations appear, may be from a few hours to

several days depending upon The intensity of the exciting cause, the importance of the organ effected, and the state of the system. The constitutional manifestations are , a general uneasiness & depression of spirits, a sense of bassibude, undisposition to mental or physical exertion, headache, pain in the back, joints and limbs, bad taste in The mouth, loss of appetite, chilliness changing with flushes of heat, These are the precursory eymptoms in the morbid chain, a state bordering on disease. Then The morbid action becomes July established, The Julse is full, hard, increased in strength, frequency and quickness, countenance flushed, eyes red, skin hot

and dry. The digestive organs are very much deranged, the tonque is always effected, sometimes red, generally coated and dry, the salwary excretion is suspended, There is thirst, nausea, vomiting, gastric oppression, bowels constipated, or relaxed, the secretions and excretions are changed. If the morbid cause ceases all These symptoms will gradually subside. On the other hand if The disease progresses: The inflammatory type assumes The typhoid condition - The pulse becomes weak and frequent, The countenance shrunken, the extremeties cold, sordes on the teeth, tonque dry, hiccough, subsult us tendinum, clammy perspiration and great depression.

Cappily in the treatment of inflammation we have many remedies by which we may arrest, control, or modify this morbid action. The first indication is to remove the exceling cause, next the establishment of reaction, It is not always that the cause can be detected, it is often latent, and then the treatment must be prescribed to fulfill the constitutional indications. Next the promotion of resolution divide elf into constitutional o local-I do not propose dilating upon the old Jashioned mode, the Alopathic means of combatting This morbid condition, Such as blood letting, mercurials,

cathartics, sedatives, diaphoritics directics of the thunder-bolts of darker ages, - flood letting the antiflogistic par excelence, the sheet anchoral The old school is capidly falling into disrepute, how could it be otherwise. The doctrines of Hahnemann, The teachings of his many true & tried followers are slowly, get surely undermining those bulwarks of ignorance, Those doctrines that have held a predominating snay for centuries. Let they have bern weighed in the balance and found wanting, the mysterious teachings of Hahnemann are influencing all. Lince his day Alopathy has undergone er ounderful changes. The Thousands shatchave suffered untold agonies

loudly cry for reform, their call has been heard, and Mahnemann orgueathed to posterity a truth that must prevail. The unborn millions shall proclaim him as The greatest medical reformer the world has ever Reen. on the treatment of suflammation, the antiflogistic regimen should be strictly observed, aest of body and mind, exclusion of light and noise, the prohibition of visiters, temperature o ventilation of the patients room, cleanliness of body, and change of bed clothing. are all indications of rital importance to which the profession, have paid too little attention. The local treatment consists

of rest and position, rest may be procured by splints or, Rest, absolute cest, is the first indication, rest and position are of primary importance in The enccessful treatment of local inflammation, Local bleeding in every form eve discard as useless & injurious. Cold and warm applications, are sometimes admissible- medicated waters are thought to be of advantage in some cases, those remedies however must be used, that are at the same time given for the constitutional treatment, repeating the application simultaneous with That given for constitutional indications -Next we pass to the constitutional treatment of inflammation, which

in our practice, is the most important part, - though but little need be said whom this subject. If we strictly adhere to or follow the laws laid down by Hahnemann we cannot fail, - There are many remedies that may be used in the treatment of inflammation, By These remedies rightly selected the profession is enabled to do much in arresting the morbid action, relieving pain, restoring and conducting to a successful termination that which would otherwise result in suffering and death, Thus we have reved

very hastily the process of a diseased action, which breaks in upon the grand and harmonious

working of organized structures, interrupting. Their healthy action, destroying tissues - demolishing That sublime machine - whose every part should rebrate in truest harmony. We have noticed some of the means to be employed to control or modify its action, Though much can be done to arrest its progress, yet we have no specific Falm, to allay the burning fever, or check the destructive progress. But whether it attacks with malignant violence, or persuo by slow, get constant heche steps till wasting is complete in death - mas instruments in a noble profession, can alleviate those burning pains that

tornent the sufferer, and when medical aid ceases - can breathe into the ear of the suffering petiful strains of human tenderness, and by actual sympathy give which. J. L. Pennoch A. D. Phila.